Future Flight Design			
2004 Science			
Standard Course of Study			
North Carolina Science			
Grade 5			
Activity/Lesson	**State**	**Standards**	
Air Transportation Problem	NC	SCI.5.4.06.b	Evaluate the results of test.
Aircraft Design Problem	NC	SCI.5.4.04	Determine that an unbalanced force is needed to move an object or change its direction.
Aircraft Design Problem	NC	SCI.5.4.05.a	Determine factors that affect motion including: Force.
Future Flight Design			
2004 Science			
Standard Course of Study			
North Carolina Science			
Grade 6			
Activity/Lesson	**State**	**Standards**	
Air Transportation Problem	NC	SCI.6.1.06.b	Use mathematics to gather, organize, and present quantitative data resulting from scientific investigations: Analysis of data.
Air Transportation Problem	NC	SCI.6.1.07.b	Prepare models and/or computer simulations to: Evaluate how data fit.
Air Transportation Problem	NC	SCI.6.1.09.a	Use technologies and information systems to: Research.
Air Transportation Problem	NC	SCI.6.1.09.b	Use technologies and information systems to: Gather and analyze data.
Air Transportation Problem	NC	SCI.6.2.03.b	Evaluate technological designs for: Risks and benefits.
Air Transportation Problem	NC	SCI.6.5.06.c	Analyze the spin-off benefits generated by space exploration technology including: Transportation.
Air Transportation Problem	NC	SCI.6.5.06.e	Analyze the spin-off benefits generated by space exploration technology including: Future research.
Air Transportation Problem	NC	SCI.6.7.04.d	Evaluate data related to human population growth, along with problems and solutions: Transportation.
Aircraft Design Problem	NC	SCI.6.2.03.a	Evaluate technological designs for: Application of scientific principles.
Aircraft Design Problem	NC	SCI.6.2.03.b	Evaluate technological designs for: Risks and benefits.
Aircraft Design Problem	NC	SCI.6.2.03.c	Evaluate technological designs for: Constraints of design.
Aircraft Design Problem	NC	SCI.6.2.03.d	Evaluate technological designs for: Consistent testing protocols.
Future Flight Design			
2004 Science			
Standard Course of Study			

North Carolina Science			
Grade 7			
Activity/Lesson	**State**	**Standards**	
Air Transportation Problem	NC	SCI.7.1.06.b	Use mathematics to gather, organize, and present quantitative data resulting from scientific investigations: Analysis of data.
Air Transportation Problem	NC	SCI.7.1.07.b	Prepare models and/or computer simulations to: Evaluate how data fit.
Air Transportation Problem	NC	SCI.7.1.09.a	Use technologies and information systems to: Research.
Air Transportation Problem	NC	SCI.7.1.09.b	Use technologies and information systems to: Gather and analyze data.
Air Transportation Problem	NC	SCI.7.1.09.c	Use technologies and information systems to: Visualize data.
Air Transportation Problem	NC	SCI.7.1.09.d	Use technologies and information systems to: Disseminate findings to others.
Air Transportation Problem	NC	SCI.7.2.03.b	Evaluate technological designs for: Risks and benefits.
Air Transportation Problem	NC	SCI.7.3.06.d	Assess the use of technology in studying atmospheric phenomena and weather hazards: Recording.
Air Transportation Problem	NC	SCI.7.3.06.e	Communicating information about conditions.
Aircraft Design Problem	NC	SCI.7.2.03.a	Evaluate technological designs for: Application of scientific principles.
Aircraft Design Problem	NC	SCI.7.2.03.b	Evaluate technological designs for: Risks and benefits.
Aircraft Design Problem	NC	SCI.7.2.03.c	Evaluate technological designs for: Constraints of design.
Aircraft Design Problem	NC	SCI.7.2.03.d	Evaluate technological designs for: Consistent testing protocols.
Aircraft Design Problem	NC	SCI.7.6.03.d	An object's motion is the result of the combined effect of all forces acting on the object:
Aircraft Design Problem	NC	SCI.7.6.05.b	Describe and measure quantities that characterize moving objects and their interactions within a system: Distance.
Aircraft Design Problem	NC	SCI.7.6.05.d	Describe and measure quantities that characterize moving objects and their interactions within a system: Force.
Aircraft Design Problem	NC	SCI.7.6.06.b	Describe and measure quantities that characterize moving objects and their interactions within a system: Transportation.
Future Flight Design			
2004 Science			
Standard Course of Study			
North Carolina Science			
Grade 8			
Activity/Lesson	**State**	**Standards**	

Air Transportation Problem	NC	SCI.8.1.06.b	Use mathematics to gather, organize, and present quantitative data resulting from scientific investigations: Analysis of data.
Air Transportation Problem	NC	SCI.8.1.07.b	Prepare models and/or computer simulations to: Evaluate how data fit.
Air Transportation Problem	NC	SCI.8.1.09.b	Use technologies and information systems to: Gather and analyze data.
Air Transportation Problem	NC	SCI.8.1.09.c	Use technologies and information systems to: Visualize data.
Air Transportation Problem	NC	SCI.8.2.03.b	Evaluate technological designs for: Risks and benefits.
Air Transportation Problem	NC	SCI.8.7.04.c	Evaluate the human attempt to reduce the risk of and treatments for microbial infections including: Research.
Aircraft Design Problem	NC	SCI.8.2.03.a	Evaluate technological designs for: Application of scientific principles.
Aircraft Design Problem	NC	SCI.8.2.03.b	Evaluate technological designs for: Risks and benefits.
Aircraft Design Problem	NC	SCI.8.2.03.c	Evaluate technological designs for: Constraints of design.
Aircraft Design Problem	NC	SCI.8.2.03.d	Evaluate technological designs for: Consistent testing protocols.
Aircraft Design Problem	NC	SCI.8.2.04.b	Apply tenets of technological design to make informed consumer decisions about: Processes.